





and the West Desert Test Center

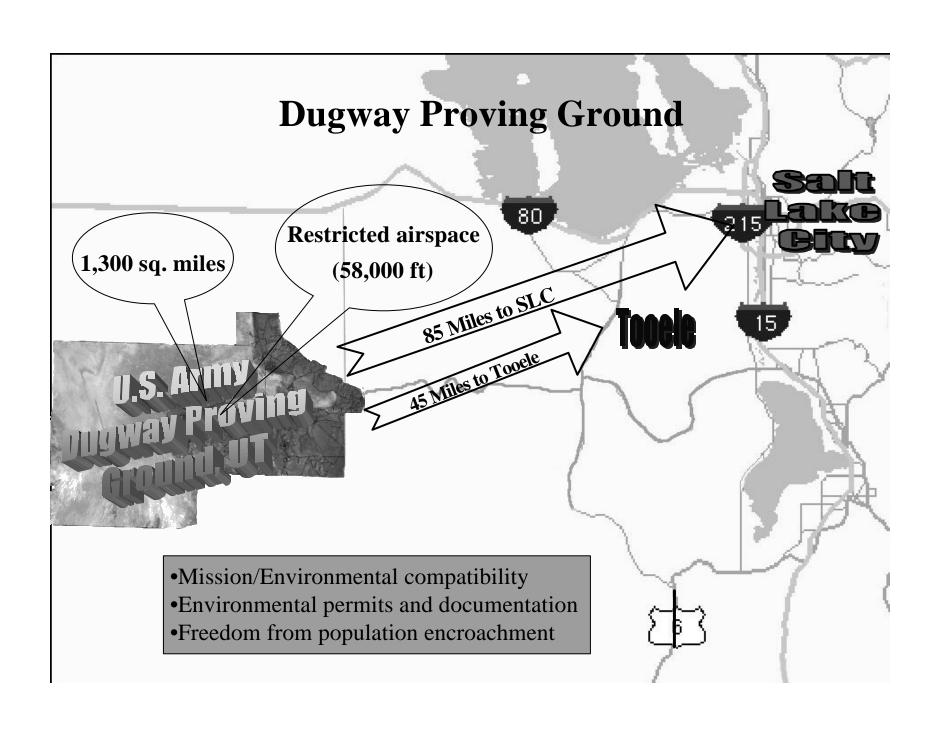
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WDTC Mission



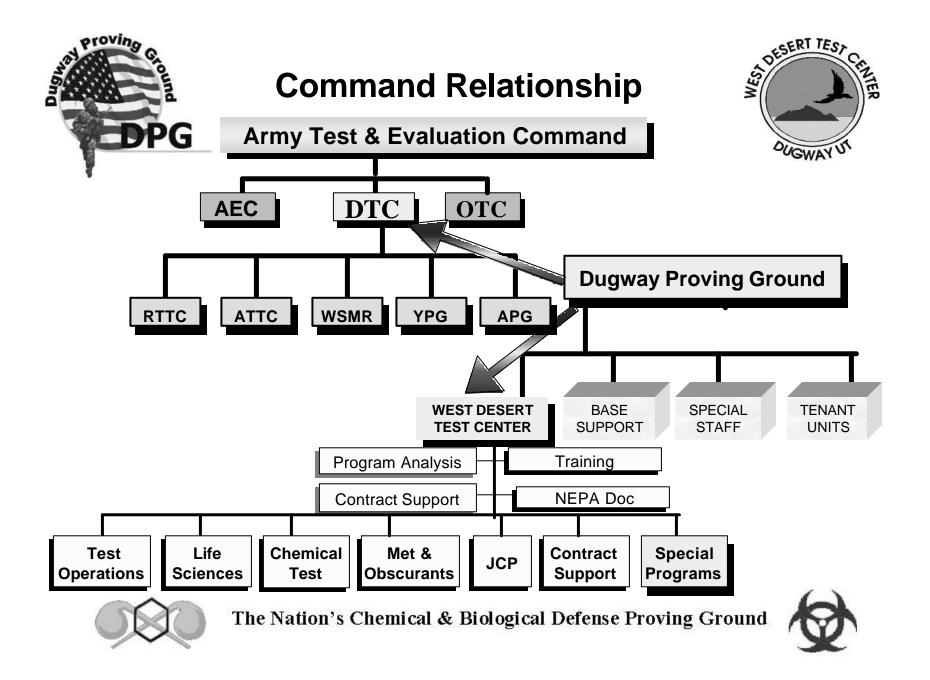
To exceed our customer's expectations in:

• Testing chemical/biological (C/B) defense material, smokes/obscurants, illuminants and munitions.

- Applied research to develop now 1 1 for C/B testing, and meteorological measurement, model:
- Verification/va¹ els, war fighters/first responder ope
- Technology t WMD-CST Support Site esponder with timely and connotch C/B defense fire scenarios.
- Emission characterization and environmental technology testing.
- Perform as program manager for Army RDT&E meteorology and program manager Joint/CINC Operational Testing, DL-O49.



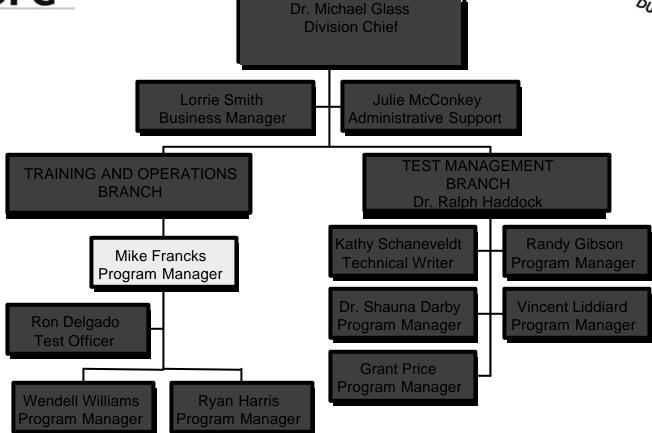
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Special Programs Division











Test Infrastructure



<u>Labs</u>





Rer

\$500 Million Estimated Book Value

ns Center

<u>ambers</u>

Lothar Salomon
Life Sciences Test Facility



Michael Army Airfield



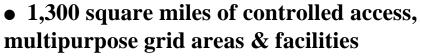
Defensive Test Chamber







Training Ranges



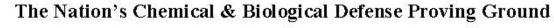
• Certified to test with C/B simulants

• Independently evaluate & test C/B detection, protection, & decontamination equipment

Validate tactics, techniques,& procedures







Range Communications Cell Phone **Tower Sites** •Fiber Optic Network •32 Channels of Video •7 Communications **Consoles with 20 Radio Nets** and Phone Patch Over 40 Communication **Drops & Cell Phones** •Centralized Voice, Data & Video Communications in **Mission Control Center** •Data Speed: 100 MB/sec **Cell Phone Activation May '01** •Ethernet Connections •Commercial Power to



most Sites





Logistical Support



Ground Transportation and Maintenance

- Vehicle Support
- 2 Maintenance Facilities

• Medical and Emergency Services

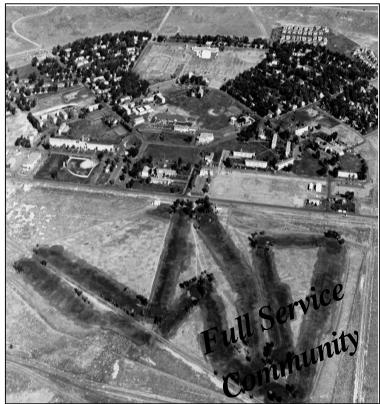
- Clinic, and Aid Stations
- 7 Ambulances
- 2 Fire Stations

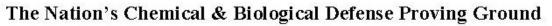
Billeting

- VIP Accommodations
- Dormitories
- Community Club, Commissary

Recreation

- Golf
- Bowling
- Theater
- Exercise Facility











DPG Homeland Defense Initiatives

Equipment Certification

Tech Information Support

DPG Capabilities



WMD/CST Unit Organization



Commander & Deputy

Unit Commander O-5

Deputy Commander/ Operations Officer (O-4)

Operations Team

Asst.. Operations Officer (O-3) Senior Operations NCO (E-8) Operations NCO-Modeling (E-7) Asst.. Operations NCO (E-6)

Admin./Logistics Team

Logistics NCO (E-7) Administrative NCO (E-5)

Communications Team

Communications Team Chief (E-7) Information Systems Operator (E-7)

Medical Team

Physicians Assistant (O-4) Medical Operations Officer Nuclear Medical Officer Medical NCO (E-7)



Team Leader (O-3)



Survey Teams

NBC Reconnaissance NCO (E-7)

- 2 Assistant NBC Reconnaissance NCOs (E-6)
- 4 Assistant NBC Reconnaissance NCOs (E-5)







Field Training Programs



- Tailored to Unit Objectives
- Use of simulated CBW agents with unique disseminations
- Realistic Scenarios with role players
- Immediate feedback from SME's (Ph.D. Level)
- Interim After Action Reviews (AAR's) and Formal After Action Reviews
 - Exercise Video
 - SME input
- Results are confidential







Raid Challenge Exercise



- 10 Day Exercise including 5 separate Day Long "Free Play" Iterations
- Training Only, Not a test or Certification
- Unit Fully Deploys with all personnel and Equipment
- Recovery and Maintenance Time Included
- Patterned Using U.S.Army NTC Model





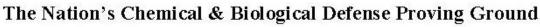


Thrust Field Exercise



- 5 Day Exercise
- 72 Hour Continuous Chem/Bio Crisis and Consequence Event
- Trains Prolonged Operational and Logistical Sustainment of the CST's
- Detection and Sampling Challenges of Live Chem/Bio Agents
 Offered at the West Desert Labs









Biological Sampling & Detection 🕏 Course



- Identified Need for Specific Biological Training!
- 4 Day Course
- Students Work with <u>Live Agents</u> in Bio-Safety Level 3
- Training Includes:
 - Hand Held Assay (HHA)
 - Polymerase Chain Reaction (PCR)
 - Enzyme Linked ImmunoSorbent Assay (Elisa)
 - Origen® (ECL)









Chemical and Biological Survey (Sourse)





- Survey team members only!
- 4 day course
- Repeated sampling of Chemical/ Biological Agents (BL3, Dilute Live Chemical, & Simulants)
- Focus is on presumptive detection, sampling, sample preparation & sample tracking.
- Team members will learn and practice best techniques of contamination control



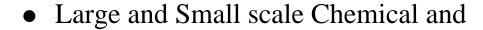


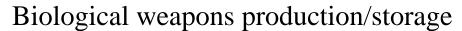
Real World Scenarios



Terrorist and non-terrorist Chemical/ Biological events

- Tailored
- Realistic





- Terrorists dissemination devices
 - Unmanned Aerial Vehicles (UAVs)
 - Improvised Explosive Devices
 - Agricultural Sprayers











Team Building Opportunities



- Complete Team involvement
- Challenge teams to think through all aspects of a Chem/Bio incident
 - Deployment to incident site
 - Detection and sampling of Chemical/ Biological Substances
 - Additional on-site Analysis of substances
 - Medical, Communications, and logistic Tasks
- Exercise Interface between CST and Civilian Emergency Responders/Agencies



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Field Exercise Players



- Participating Response Elements Local Police, and Fire
 - Local HAZMAT
 - FBI, and FBI HRMU
 - FEMA
 - State Emergency Management
 - Local Medical and Public Health Services
- Various "victim" role players used as necessary
- Civilian Local Responders Participation
 - CST's encouraged to bring civilian counterparts from their region to participate in the exercise.









CW Agents and Simulants



The controlled use of dilute chemical live agents and simulants to fully test detection, protection, and decontamination techniques and equipment

- Nerve Agent Simulants
 - Triethyl Phosphate (TEP)
 - Diethyl Malonate (DEM)
 - Acetic Acid
- Blister Agent Simulant
 - Methyl Salicylate
- Dilute Live Agents
 - GA,GB,GF, VX, R33, HA,HF, L







BW Agents and Simulants



The controlled use of live biological agents and simulants to fully test detection, protection, and decontamination techniques and equipment

- BW Simulants
 - BG
 - Erwinia herbicola
 - Ovalbumin
 - MS2
- Vaccine Strains
 - Bacillus anthracis
 - Francisella tularensis



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Completed Training as of 19 April 01'



- RC 00-1 FTX, 8th (CO) CST, June 00'
- BSDC 00-1, 4th (GA) CST, June 00'
- BSDC 00-2, 1st (MA) CST, Aug 00'
- BSDC 00-3, 10th (WA) CST, Sept 00'
- BSDC 01-1, 9th (CA) CST, Oct 00'
- BSDC 01-2, 2nd (NY) CST, Nov 00'
- BSDC 01-3, 8th (CO) CST, Nov 00'
- BSDC 01-4, 5th (PA) CST, Dec 00'
- RC 01-1 FTX, 2nd (NY) CST, Dec 00'
- RT 01-1 FTX, 9th (CA) CST, Jan 01'
- CBSC 01-1, 9th (CA) CST, Feb 01'

- CBSC 01-2, 4th (GA) CST, Feb 01'
- RT 01-1, FTX, 9th (CA) CST, Jan 01'
- CBSC 01-1, 9th (CA) CST, Feb 01'
- CBSC 01-2, 4th (GA) CST, Feb 01'
- BSDC 01-5, 71st (IA) CST, Mar 01'
- RC 01-2 FTX, 4th (GA) CST, Apr 01'
- CBSC 01-3, 3rd (PA) CST, Apr 01'

BSDC = Bio Sampling and Detection Course

CBSC = Chem/Bio Survey Course

RC = **Raid** Challenge

RT = **Raid** Thrust







CST Training Scheduled as of 29 Mar 01'



- BSDC 01-5, 71st (IA) CST, Mar 01'
- RC 01-2 FTX, 4th (GA) CST, Apr 01'
- CBSC 01-3, 3rd (PA) CST, Apr 01'
- BSDC 01-6, 7th (MO) CST, Apr 01'
- BSDC 01-7, 91st (AZ) CST, May 01'
- RC 01-3 FTX, 8th (CO) CST, May 01'
- RT 01-2, FTX, 9th (CA) CST, May 01'
- RC 01-4, FTX, 5th (IL) CST, May 01'
- BSDC 01-8, 3rd (PN) CST, Jun 01'
- RC 01-5, FTX 71st (IA) CST, July 01'
- RT 01-3, FTX, 9th (CA) CST, Aug 01'
- RC 01-6, FTX, 10th (WA) CST, Aug 01'

- BSDC 01-9, 103rd (AK) CST, Aug 01'
- RC 01-7, FTX, 3rd (PA) CST, Sept 01'
- BSDC 01-10, 9th (CA) CST, Sept 01'
- RC 01-7, FTX, 71st (IA) CST, Oct 01'
- CBSC 01-4, 6th (TX) CST, Oct 01'
- RC 01-8, FTX, 6th (TX) CST, Nov 01'
- BSDC 01-11, 52nd(OH) CST, Nov 01'
- CBSC 01-5, 52nd(OH) CST, Dec 01'

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How We Can Make it Better



- Expand and Improve Use of Simulants
- CST Feedback on needs and requirements
- Expand and Improve Existing Training Facilities.
- Dedicated Staff to support Mission.
- New Equipment Testing and Training.
- Institutional Support







Summary



- Dugway Proving Ground has more credibility and experience than anyone else in chem/bio defense (Over 50 Years).
- Dugway is approved for open air release of chemical & biological simulants.
- Best possible subject matter experts.
- Opportunity to gain equipment confidence by live agent challenges.
- "One-Stop" Total Training Opportunity



